

ADCA- ★ P32 90-247995/33 ★ EP-382-014-A
Intravascular endoprosthesis - has sheet rolled-up and locked in
spiral with balloon mounted on end of catheter
ADV CARDIOVASCULAR 26.01.89-CH-000237
(16.08.90) A61f-02/06

25.01.90 as 101509 (1846IC) (E) DE3640745 EP-246998 EP-221570
WO8300997 US4740207 R(DE FR GB IT NL)

The intravascular stent consists of a flat sheet (1) which is perforated to form a kind of a reticulated or lattice type structure with undeformable links (2) and made of malleable material. The sheet (1) is temporarily rolled up and locked in a spiral with a relatively small diameter (d) on a deflated angioplasty balloon (6) mounted on the end of a catheter (7) and is held in the rolled up state by a tie (8) laced into overlapping links.

Once the device is in place in the restricted area of the blood vessel to be treated and after tie (8) is removed, the rolled sheet is expanded to a desired diameter (D) by inflating balloon. It is then held in this expanded state by integrated holding flaps (5) which, after the balloon is deflated, extend through the links and engage the edges under the pressure of the vessel.

USE - For implantation in a stenotic area or zone of obstruction of a blood vessel. (8pp Dwg.No.1a/5)
N90-192619

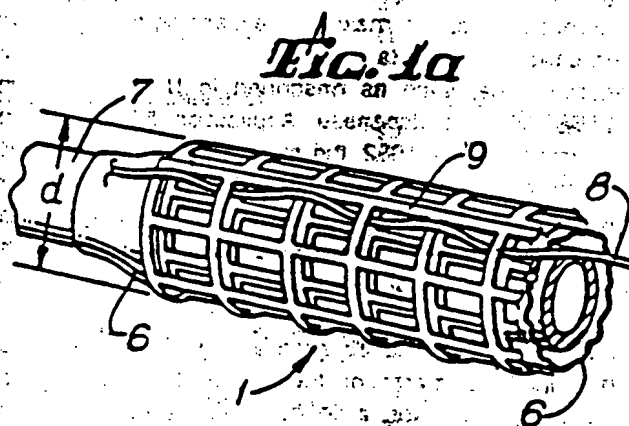


Fig. 1a

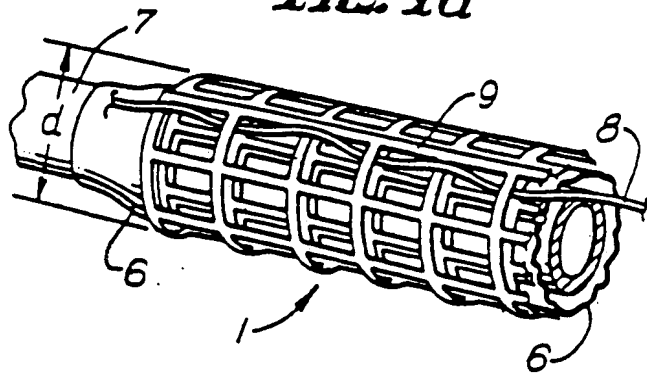


Fig. 1b

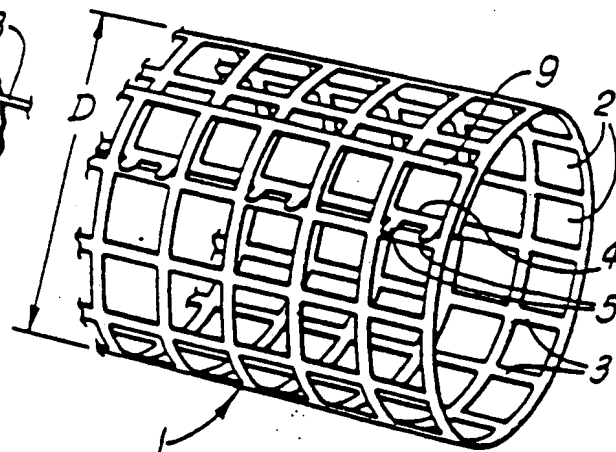


Fig. 3

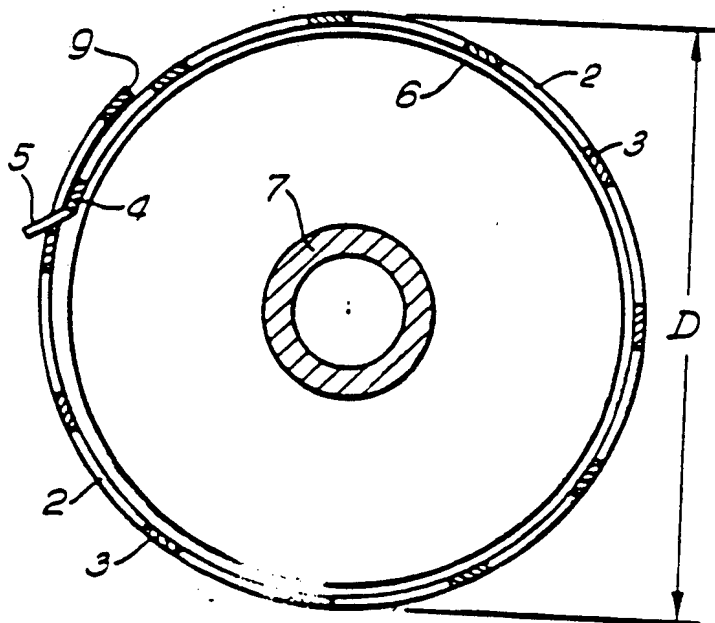


Fig. 2

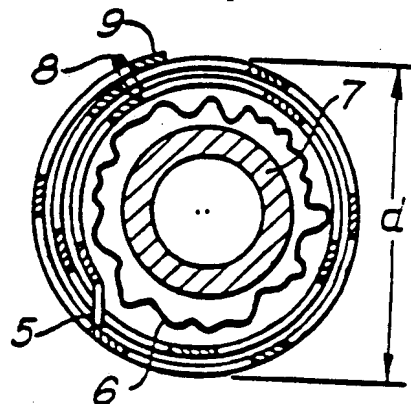


Fig. 4

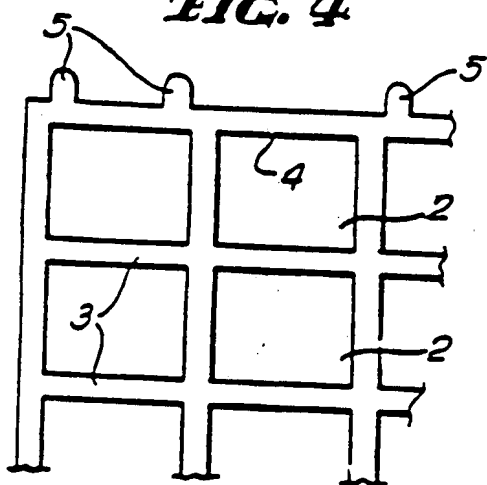


Fig. 5

